

=====

Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2009; month=5; day=12; hr=13; min=48; sec=11; ms=789;]

=====

Reviewer Comments:

<220>

<221> modified_base

<222> (78)

<223> a, t, c or g

<220>

<221> modified_base

<222> (87)

<223> a, t, c or g

<400> 90

acn ath wsn mgn gay aay wsn aar aay acn ytn tay ttn car atg aay 48

Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn

1

5

10

15

wsn ttr mgn gcn gar gay acn gcn gtn tay tay tgy gcn aar 90

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys

20

25

30

A mandatory feature is required to cover every "n" used in a sequence.

SEQ ID # 90 does not have a feature to cover the "n" at positions 33 and 39. Please make all necessary changes.

Application No: 10045674 Version No: 3.0

Input Set:

Output Set:

Started: 2009-04-30 16:49:51.088
Finished: 2009-04-30 16:50:09.582
Elapsed: 0 hr(s) 0 min(s) 18 sec(s) 494 ms
Total Warnings: 459
Total Errors: 11
No. of SeqIDs Defined: 637
Actual SeqID Count: 637

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2009-04-30 16:49:51.088
Finished: 2009-04-30 16:50:09.582
Elapsed: 0 hr(s) 0 min(s) 18 sec(s) 494 ms
Total Warnings: 459
Total Errors: 11
No. of SeqIDs Defined: 637
Actual SeqID Count: 637

SEQUENCE LISTING

<110> LADNER, ROBERT C.
COHEN, EDWARD H.
NASTRI, HORACIO G.
ROOKEY, KRISTIN L.
HOET, RENE
HOOGENBOOM, HENDRICUS R. J. M.

<120> NOVEL METHODS OF CONSTRUCTING LIBRARIES COMPRISING
DISPLAYED AND/OR EXPRESSED MEMBERS OF A DIVERSE FAMILY
OF PEPTIDES, POLYPEPTIDES OR PROTEINS AND THE NOVEL
LIBRARIES

<130> D2033-708931

<140> 10045674

<141> 2001-10-25

<150> 06/198,069

<151> 2000-04-17

<150> 09/837,306

<151> 2001-04-17

<160> 637

<170> PatentIn Ver. 3.5

<210> 1

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1

catgtgtatt actgtgc

17

<210> 2

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 2

cacatccgtg ctcttgcac ggatgtggca cagtaataaca catg

44

<210> 3

<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 3
gtgtattaga ctgctgcc 18

<210> 4
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 4
ggcagcagtc taatacacca catccgtgtt cttcacggat gtg 43

<210> 5
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 5
cacatccgtg ttgttacac ggatgtggtg tcttacagtc cattctg 47

<210> 6
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 6
cagaatggac tgtaagacac 20

<210> 7
<211> 43
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 7

atcgagtctc actgagccac atccgtggtt ttccacggat gtg

43

<210> 8

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 8

gctcagttag actcgat

17

<210> 9

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>

<221> modified_base

<222> (10)..(24)

<223> a, t, c, g, unknown or other

<400> 9

cacgaggagn nnnnnnnnnn nnnn

24

<210> 10

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 10

atgaccgaat tgctacaag

19

<210> 11

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 11

gactcctcag cttcttgctg aggagtcctt gtagcaattc ggtcat 46

<210> 12

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 6 His tag

<400> 12

His His His His His His

1

5

<210> 13

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>

<221> modified_base

<222> (6)..(10)

<223> a, t, c, g, unknown or other

<400> 13

gtctcnnnn 10

<210> 14

<211> 11

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>

<221> modified_base

<222> (1)..(6)

<223> a, t, c, g, unknown or other

<400> 14

nnnnnngaga c 11

<210> 15

<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (11)..(24)
<223> a, t, c, g, unknown or other

<400> 15
cacggatgtg nnnnnnnnnn nnnn 24

<210> 16
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (1)..(14)
<223> a, t, c, g, unknown or other

<400> 16
nnnnnnnnnn nnnncacatc cgtg 24

<210> 17
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 17
gtgtattact gtgc 14

<210> 18
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 18
cacatccgtg cacggatgtg gcacagtaat acac 34

<210> 19
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 19
gtgtattaga ctgc 14

<210> 20
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 20
gcagtctaat acaccacatc cgtgcacgga tgtg 34

<210> 21
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 21
cacatccgtg cacggatgtg gtgtcttaca gtcc 34

<210> 22
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 22
ggactgttaag acac 14

<210> 23

<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 23
gagtctcaact gagccacatc cgtgcacgga tgtg 34

<210> 24
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 24
gctcagttagt actc 14

<210> 25
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 25
gtgtattact gtgc 14

<210> 26
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 26
gtatattact gtgc 14

<210> 27
<211> 14
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 27

gtgtattact gtaa

14

<210> 28

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 28

gtgtattact gtac

14

<210> 29

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 29

ttgtattact gtgc

14

<210> 30

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 30

ttgtatcact gtgc

14

<210> 31

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 31

acatattact gtgc

14

<210> 32
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 32
acgttattact gtgc 14

<210> 33
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 33
atgttattact gtgc 14

<210> 34
<211> 101
<212> DNA
<213> Homo sapiens

<400> 34
agggtcacca tgaccaggga cacgtccatc agcacagcct acatgabcga gctgagcagg 60
ctgagatctg acgacacggc cgtgtattac tgtgcgagag a 101

<210> 35
<211> 98
<212> DNA
<213> Homo sapiens

<400> 35
agagtcacca ttaccaggga cacatccgcg agcacagcct acatggagct gagcagcctg 60
agatctgaag acacggctgt gtattactgt gcgagaga 98

<210> 36
<211> 98
<212> DNA
<213> Homo sapiens

<400> 36
agagtcacca tgaccaggaa cacctccata agcacagcct acatggagct gagcagcctg 60
agatctgagg acacggccgt gtattactgt gcgagagg 98

<210> 37
<211> 98
<212> DNA
<213> Homo sapiens

<400> 37
agagtccacca tgaccacaga cacatccacg agcacagcct acatggagct gaggagcctg 60
agatctgacg acacggccgt gtattactgt gcgagaga 98

<210> 38
<211> 98
<212> DNA
<213> Homo sapiens

<400> 38
agagtccacca tgaccgagga cacatctaca gacacagcct acatggagct gaggcagcctg 60
agatctgagg acacggccgt gtattactgt gcaacaga 98

<210> 39
<211> 98
<212> DNA
<213> Homo sapiens

<400> 39
agagtccacca ttaccaggga caggtctatg agcacagcct acatggagct gaggcagcctg 60
agatctgagg acacagccat gtattactgt gcaagata 98

<210> 40
<211> 98
<212> DNA
<213> Homo sapiens

<400> 40
agagtccacca tgaccaggga cacgtccacg agcacagcct acatggagct gaggcagcctg 60
agatctgagg acacggccgt gtattactgt gcgagaga 98

<210> 41
<211> 98
<212> DNA
<213> Homo sapiens

<400> 41
agagtccacca ttaccaggga catgtccaca agcacagcct acatggagct gaggcagcctg 60
agatccgagg acacggccgt gtattactgt gggcaga 98

<210> 42
<211> 98
<212> DNA
<213> Homo sapiens

<400> 42

agagtacgta ttaccgcgga cgaatccacg agcacagcct acatggagct gagcagcctg 60
agatctgagg acacggccgt gtattactgt gcgagaga 98

<210> 43
<211> 98
<212> DNA
<213> Homo sapiens

<400> 43
agagtacgta ttaccgcgga caaatccacg agcacagcct acatggagct gagcagcctg 60
agatctgagg acacggccgt gtattactgt gcgagaga 98

<210> 44
<211> 98
<212> DNA
<213> Homo sapiens

<400> 44
agagtacca taaccgcgga cacgtctaca gacacagcct acatggagct gagcagcctg 60
agatctgagg acacggccgt gtattactgt gcaacaga 98

<210> 45
<211> 100
<212> DNA
<213> Homo sapiens

<400> 45
aggctacca tcaccaagga cacctccaaa aaccaggtgg tccttacaat gaccaacatg 60
gaccctgtgg acacagccac atattactgt gcacacagac 100

<210> 46
<211> 100
<212> DNA
<213> Homo sapiens

<400> 46
aggctacca tctccaagga cacctccaaa agccaggtgg tccttaccat gaccaacatg 60
gaccctgtgg acacagccac atattactgt gcacggatac 100

<210> 47
<211> 100
<212> DNA
<213> Homo sapiens

<400> 47
aggctacca tctccaagga cacctccaaa aaccaggtgg tccttacaat gaccaacatg 60
gaccctgtgg acacagccac gtattactgt gcacggatac 100

<210> 48
<211> 98
<212> DNA

<213> Homo sapiens

<400> 48

cgattcacca tctccagaga caacgccaag aactcactgt atctgcaaat gaacagcctg 60
agagccgagg acacggctgt gtattactgt gcgagaga 98

<210> 49

<211> 100

<212> DNA

<213> Homo sapiens

<400> 49

cgattcacca tctccagaga caacgccaag aactccctgt atctgcaaat gaacagtctg 60
agagctgagg acacggcctt gtattactgt gcaaaagata 100

<210> 50

<211> 98

<212> DNA

<213> Homo sapiens

<400> 50

cgattcacca tctccagggg caacgccaag aactcactgt atctgcaaat gaacagcctg 60
agagccgagg acacggccgt gtattactgt gcgagaga 98

<210> 51

<211> 98

<212> DNA

<213> Homo sapiens

<400> 51

cgattcacca tctccagaga aaatgccaag aactccttgt atcttcaaat gaacagcctg 60
agagccgggg acacggctgt gtattactgt gcaagaga 98

<210> 52

<211> 98

<212> DNA

<213> Homo sapiens

<400> 52

agattcacca tctcaagaga tgattcaaaa aacacgctgt atctgcaaat gaacagcctg 60
aaaaccgagg acacagccgt gtattactgt accacaga 98

<210> 53

<211> 98

<212> DNA

<213> Homo sapiens

<400> 53

cgattcacca tctccagaga caacgccaag aactccctgt atctgcaaat gaacagtctg 60
agagccgagg acacggcctt gtatcactgt gcgagaga 98

<210> 54
<211> 98
<212> DNA
<213> Homo sapiens

<400> 54
cgattcacca tctccagaga caacgccaag aactcactgt atctgcaaat gaacagcctg 60
agagccgagg acacggctgt gtattactgt gcgagaga 98

<210> 55
<211> 98
<212> DNA
<213> Homo sapiens

<400> 55
cggttcacca tctccagaga caattccaag aacacgctgt atctgcaaat gaacagcctg 60
agagccgagg acacggccgt atattactgt gcgaaaga 98

<210> 56
<211> 98
<212> DNA
<213> Homo sapiens

<400> 56
cgattcacca tctccagaga caattccaag aacacgctgt atctgcaaat gaacagcctg 60
agagctgagg acacggctgt gtattactgt gcgaaaga 98

<210> 57
<211> 98
<212> DNA
<213> Homo sapiens

<400> 57
cgattcacca tctccagaga caattccaag aacacgctgt atctgcaaat gaacagcctg 60
agagctgagg acacggctgt gtattactgt gcgagaga 98

<210> 58
<211> 98
<212> DNA
<213> Homo sapiens

<400> 58
cgattcacca tctccagaga caattccaag aacacgctgt atctgcaaat gaacagcctg 60
agagctgagg acacggctgt gtattactgt gcgaaaga 98

<210> 59
<211> 98
<212> DNA
<213> Homo sapiens

<400> 59
cgattcacca tctccagaga caattccaag aacacgctgt atctgcaaat gaacagcctg 60

agagccgagg acacggctgt gtattactgt gcgagaga 98

<210> 60

<211> 100

<212> DNA

<213> Homo sapiens

<400> 60

cgattcacca tctccagaga caacagcaaa aactccctgt atctgcaa at gaacagtctg 60
agaactgagg acaccgcctt gtattactgt gcaaaagata 100

<210> 61

<211> 98

<212> DNA

<213> Homo sapiens

<400> 61

cgattcacca tctccagaga caatgccaag aactcaactgt atctgcaa at gaacagcctg 60
agagacgagg acacggctgt gtattactgt gcgagaga 98

<210> 62

<211> 98

<212> DNA

<213> Homo sapiens

<400> 62

agattcacca tctcaagaga tggttccaaa agcatgcct atctgcaa at gaacagcctg 60
aaaaccgagg acacagccgt gtattactgt actagaga 98

<210> 63

<211> 98

<212> DNA

<213> Homo sapiens

<400> 63

cgattcacca tctccagaga caattccaag aacacgctgt atcttcaa at gaacagcctg 60
agagccgagg acacggccgt gtattactgt gcgagaga 98

<210> 64

<211> 98

<212> DNA

<213> Homo sapiens

<400> 64

agattcacca tctccagaga caattccaag aacacgctgt atcttcaa at gggcagecctg 60
agagctgagg acatggctgt gtattactgt gcgagaga 98

<210> 65

<211> 98

<212> DNA

<213> Homo sapiens

<400> 65
agattcacca tctccagaga caattccaag aacacgctgt atcttcaa at gaacagcctg 60
agagctgagg acacggctgt gtattactgt gcgagaga 98

<210> 66
<211> 98
<212> DNA
<213> Homo sapiens

<400> 66
agattcacca tctcaagaga tgattcaa ag aactcaactgt atctgcaa at gaacagcctg 60
aaaaccgagg acacggccgt gtattactgt gctagaga 98

<210> 67
<211> 98
<212> DNA
<213> Homo sapiens

<400> 67
aggttcacca tctccagaga tgattcaa ag aacacggcgt atctgcaa at gaacagcctg 60
aaaaccgagg acacggccgt gtattactgt actagaca 98

<210> 68
<211> 98
<212> DNA
<213> Homo sapiens

<400> 68
cgattcacca tctccagaga caacgccaag aacacgctgt atctgcaa at gaacagtctg 60
agagccgagg acacggctgt gtattactgt gcaagaga 98

<210> 69
<211> 98
<212> DNA
<213> Homo sapiens

<400> 69
agattcacca tctccagaga caattccaag aacacgctgc atcttcaa at gaacagcctg 60
agagctgagg acacggctgt gtattactgt aagaaaga 98

<210> 70
<211> 98
<212> DNA
<213> Homo sapiens

<400> 70
cgagtcacca tatca gtaga caagtccaag aaccagg tct ccc tgaagct gagctctgtg 60
accgcgcgg acacggccgt gtattactgt gcgagaga 98

<210> 71

<211> 98
<212> DNA
<213> Homo sapiens

<400> 71
cgagtcacca tgtcagtaga cacgtccaag aaccagttct ccctgaagct gagctctgtg 60
accgcccgtgg acacggccgt gtattactgt gcgagaaa 98

<210> 72
<211> 98
<212> DNA
<213> Homo sapiens

<400> 72
cgagttacca tatcagtaga cacgtctaag aaccagttct ccctgaagct gagctctgtg 60
actgcccggg acacggccgt gtattactgt gcgagaga 98

<210> 73
<211> 98
<212> DNA
<213> Homo sapiens

<400> 73
cgagtcacca tatcagtaga caggtccaag aaccagttct ccctgaagct gagctctgtg 60
accgcccggg acacggccgt gtattactgt gccagaga 98

<210> 74
<211> 98
<212> DNA
<213> Homo sapiens

<400> 74
cgagttacca tatcagtaga cacgtccaag aaccagttct ccctgaagct gagctctgtg 60
actgcccggg acacggccgt gtattactgt gccagaga 98

<210> 75
<211> 98
<212> DNA
<213> Homo sapiens

<400> 75
cgagttacca tatcagtaga cacgtctaag aaccagttct ccctgaagct gagctctgtg 60
actgcccggg acacggccgt gtattactgt gcgagaga 98

<210> 76
<211> 98
<212> DNA
<213> Homo sapiens

<400> 76
cgagtcacca tatcagtaga cacgtccaag aaccagttct ccctgaagct gagctctgtg 60
accgcccggg acacggccgt gtattactgt gcgagaga 98

<210> 77

<211> 98

<212> DNA

<213> Homo s